

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CA 03/01090

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/395 G01N33/53 A61P19/02 A61P11/06 A61P37/00
 //C07K16/28, C07K16/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, MEDLINE, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 23646 A (MEDAREX INC) 4 June 1998 (1998-06-04) page 21 -page 22 ---	1-19
A	WO 91 05805 A (DARTMOUTH COLLEGE) 2 May 1991 (1991-05-02) the whole document ---	1-22
A	FERKOL T ET AL: "GENE TRANSFER INTO RESPIRATORY EPITHELIAL CELLS BY TARGETING THE POLYMERIC IMMUNOGLOBULIN RECEPTOR" JOURNAL OF CLINICAL INVESTIGATION, NEW YORK, NY, US, vol. 92, no. 5, November 1993 (1993-11), pages 2394-2400, XP001053217 ISSN: 0021-9738 the whole document --- -/--	20-22

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

10 December 2003

Date of mailing of the international search report

22/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Wagner, R

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WOLF H M ET AL: "Anti-inflammatory properties of human serum IgA: Induction of IL-1 receptor antagonist and Fc-alpha-R (CD89)-mediated down-regulation of tumour necrosis factor-alpha (TNF-alpha) and IL-6 in human monocytes"</p> <p>CLINICAL AND EXPERIMENTAL IMMUNOLOGY, vol. 105, no. 3, 1996, pages 537-543, XP002263966</p> <p>ISSN: 0009-9104</p> <p>the whole document</p> <p>---</p>	1-22
A	<p>MONTENEGRO V ET AL: "Elevation of serum IgA in spondyloarthropathies and IgA nephropathy and its pathogenic role"</p> <p>CURRENT OPINION IN RHEUMATOLOGY 1999 UNITED STATES, vol. 11, no. 4, 1999, pages 265-272, XP009022238</p> <p>ISSN: 1040-8711</p> <p>the whole document</p> <p>---</p>	1-22
P,A	<p>FERKOL THOMAS ET AL: "Targeted delivery of antiprotease to the epithelial surface of human tracheal xenografts."</p> <p>AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE, vol. 167, no. 10, 15 May 2003 (2003-05-15), pages 1374-1379, XP009022239</p> <p>ISSN: 1073-449X (ISSN print)</p> <p>the whole document</p> <p>---</p>	20-22
P,A	<p>WO 02 064634 A (VAN DE WINKEL JAN ;VAN DIJK MARCUS A (NL); MEDAREX INC (US); HUDSO) 22 August 2002 (2002-08-22)</p> <p>the whole document</p> <p>-----</p>	1-19

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA 03/01090

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 27-32 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ This additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

tion on patent family members

International Application No

PCT/CA 03/01090

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9823646	A	04-06-1998	US 6018031 A	25-01-2000
			AU 5456698 A	22-06-1998
			WO 9823646 A2	04-06-1998
WO 9105805	A	02-05-1991	AT 181558 T	15-07-1999
			CA 2067244 A1	21-04-1991
			DE 69033181 D1	29-07-1999
			DE 69033181 T2	21-10-1999
			DK 496818 T3	22-11-1999
			EP 0496818 A1	05-08-1992
			ES 2132072 T3	16-08-1999
			JP 5504677 T	22-07-1993
			WO 9105805 A1	02-05-1991
			US 5610057 A	11-03-1997
			US 6018031 A	25-01-2000
WO 02064634	A	22-08-2002	CA 2437814 A1	22-08-2002
			WO 02064634 A2	22-08-2002
			US 2003082643 A1	01-05-2003